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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/600,061	06/20/2003	Cesar Z. Lina	VAC.567.1.US	5656		
60402 75500 12/12/2008 KINETIC CONCEPTS, INC. C/O SONNENSCHEIN NATH & ROSENTHAL LLP P.O. BOX 061080 WACKER DRIVE STATION, SEARS TOWER CHICAGO, IL 60606			EXAM	EXAMINER		
			HAND, MI	HAND, MELANIE JO		
			ART UNIT	PAPER NUMBER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

Application No.	Applicant(s)	
10/600,061	LINA ET AL.	
Examiner	Art Unit	
MELANIE J. HAND	3761	

Office Action Summary	Examiner	Art Unit				
	MELANIE J. HAND	3761				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  Extensions of time may be available under the provisions of 37 CFR 1.13  after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the macroman statutory period we  Any reply received by the Office later than three months after the mailing  earned patent term adjustment. See 37 CFR 1.70(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tin  till apply and will expire SIX (6) MONTHS from  cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	,			
Status						
1) Responsive to communication(s) filed on 25 Se	eptember 2008.					
	action is non-final.					
3) Since this application is in condition for allowan	ice except for formal matters, pro	secution as to the	e merits is			
closed in accordance with the practice under E.	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) 1-19 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	yn from consideration					
5) Claim(s) is/are allowed.	m nom consideration.					
6)⊠ Claim(s) 1-19 is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement					
Application Papers						
9) The specification is objected to by the Examiner						
10) The drawing(s) filed on is/are: a) acce						
Applicant may not request that any objection to the o						
Replacement drawing sheet(s) including the correcti						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	TO-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	ı-(d) or (f).				
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents have been received in Application No.						
3.☐ Copies of the certified copies of the prior			Stage			
application from the International Bureau	•		- 0			
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
Attachment(s)	n□	(DTO 110)				
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	<li>4) Interview Summary Paper No(s)/Mail Da</li>					
3) Triformation Disclosure Statement(s) (FTO/SZ/05)  5) Notice of Informal Patent Application.						
Paper No(s)/Mail Date 9/25/08.	6) Other:					

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

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### DETAILED ACTION

# Continued Examination Under 37 CFR 1.114

 A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on July 28, 2008 has been entered.

#### Response to Arguments

- 2. Applicant's arguments filed July 28, 2008 have been fully considered but they are not persuasive. As to arguments under heading I, the device of Bowen as modified by Podell and as further modified by McRae meets all of the claim limitations of claim 1 as amended. The limitation "distributing negative pressure to a wound" is a functional limitation that does not render the claimed device patentable over the prior art and is thus rendered obvious by the device of Bowen as modified by Podell and further modified by McRae, as the device renders all of the structural limitations recited in claim 1. Even if it were not a functional limitation, but a structural feature, there is no support or enablement in the disclosure for a pad that distributes negative pressure. The negative pressure acts upon the pad and flows through its pores, therefore any distribution of negative pressure is purely passive on the part of the pad; the pad does not actively distribute the negative pressure to the wound.
- 3. As to arguments under heading II, in response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., that the porous pad collects liquids that fall toward the pad) are not

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recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Examiner is interpreting "fall toward the pad" as liquids which flow along the skin surface toward the wound, rather than those present in the wound bed that are collected by suction. The claimed device having a cover would also prevent liquids falling toward the claimed pad from being collected by the pad, as the cover is intended to be a seal keeping the wound area closed.

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- 4. As to arguments under heading III, Podell does seek to solve the problem of providing a wound cover by disclosing a surgical drape to be placed over and sealed around a wound. Thus there is certainly a suggestion to modify the device of Bowen so as to include a drape or cover as disclosed by Podell. To further clarify examiner's position, applicant is referred to Col. 1, lines 17, 18 and 55-57 of Podell wherein Podell discloses that drapes are known in the art and provide a sterile field for the wound. Thus there is an advantage or motivation for modifying the device of Bowen so as to comprise a dressing cover as claimed.
- 5. As to arguments under heading IV, claims 14 and 15 require a <u>seal</u> that is airtight. The seal disclosed by Bowen is accomplished by a polyurethane base adhesive that is air-impermeable by nature. The fact that Bowen discloses that water vapor and oxygen can escape is immaterial, as neither are equivalent to air, and an airtight seal is what is required by claims 1 and 10.
- Applicant's arguments with regard to dependent claims 7, 8, 11, 18 and 19 have been fully considered but are not persuasive, as applicant's arguments depend entirely on arguments regarding the rejection of claims 7, 8, 11, 18 and 19, which have been addressed *supra*.

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# Information Disclosure Statement

7. The information disclosure statement (IDS) submitted on September 25, 2008 was filed after the mailing date of the final action on June 20, 2008. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

# Claim Rejections - 35 USC § 103

- The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- Claims 1-6, 9, 10 and 12-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bowen (U.S. Patent No. 5,827,246) in view of McRae et al (U.S. Patent No. 3, 978,855) and further in view of Podell et al (U.S. Patent No.5,419,913).

With respect to Claims 1,10: Bowen teaches a porous pad 40 (Fig. 2) that is permeable to liquids including a porous body 44 having at least a partial outer surface and an inner body. The outer surface (opposite manifold 42 in Fig. 2) is adapted for contact with a surface of a wound and has pores 54 therein of a first average size to enhance biocompatibility, said porous pad 40 to be introduced onto or into a wound so as to be in contact with said wound and with said outer surface adjacent said wound; a vacuum canister 28 for collecting fluids sucked from said wound by a negative pressure source 32 connected to said porous pad 40 through a drainage tube 30.

Bowen does not teach that said pad 40 is secured in or on said wound by a dressing cover for providing a seal around said wound and said porous pad. Podell teaches a surgical drape comprised of a flexible elastomeric material. Since the devices of Bowen and Podell seek to solve a similar problem in the art (i.e. provide a protective cover for a wound) it would be

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obvious to one of ordinary skill in the art to modify the device of Bowen so as to provide a dressing cover for said vacuum pad with a reasonable expectation of success. ('246, any figure, Col. 6. lines 44-49; '913. Col. 3. lines 5-7)

Neither Bowen nor Podell teaches that pad 40 has an outer surface with pores of a first size contacting the wound or an inner body with pores of a second average size that is greater than the pores in the outer surface of said first average size. McRae teaches a wound dressing comprised of open-celled polyurethane foam (Col. 4, lines 53-58) McRae teaches that the polyurethane dressing is compressed to cause cells near at least one surface of said foam to collapse either temporarily or permanently, decreasing their pore size and thus creating a microporous skin on at least that particular surface area, leaving the cells in areas remote from said skin at their original size (now larger compared to the pores at the skin surface). McRae teaches that said first and second pore sizes are to promote sufficient wicking and absorption at the microporous skin surface that is adjacent the wound surface and the larger size is to allow ready absorption while still being small enough to be capable of prohibiting excess exudate absorbed by the microporous skin to pass into the remote region. Therefore, it would be obvious to one of ordinary skill in the art to modify the dressing of Bowen to have a vacuum pad comprised of the polyurethane foam taught by McRae having an outer surface with pores of a first average size and an inner body with pores of a second average size greater than said first average size as taught by McRae to promote sufficient wicking and absorption at the outer surface that is adjacent the wound surface and to allow ready absorption while still being small enough to be capable of prohibiting excess exudate absorbed by the microporous skin to pass into the inner body.

With regard to the limitation "distributing negative pressure to a wound", this limitation constitutes functional language that is given little patentable weight herein. Since the device of

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Bowen as modified by Podell and further modified by McRae renders all of the structural limitations of claims 1 and 10 obvious, this limitation is rendered unpatentable as well.

With respect to Claim 2: The porous pad 40 disclosed by Bowen has an elongated hole to accommodate said drainage tube 30, ('246, Col. 4, lines 22-27, 41-44)

With respect to **Claim 3**: By virtue of having pores in a dressing that are capable of being drained of exudates via negative pressure from a suction pump, the pores of a second average size in the dressing of the combined teaching of Bowen and McRae and Podell are considered herein to be vacuum-compatible.

With respect to **Claim 4**: Bowen does not teach either of the materials set forth in claim 4.

McRae teaches a pad of polyurethane foam (Col. 5, lines 49-51). The motivation to combine the teachings of Bowen and McRae has been stated *supra* with respect to claim 1.

With respect to Claim 5: Bowen does not teach a first pore size within the claimed range.

McRae teaches that pores in the microporous skin area have a diameter in the range of 0.2-200 microns. (Col. 4, lines 42-45, 52-57) McRae teaches that said first and second pore sizes are to promote sufficient wicking and absorption at the microporous skin surface that is adjacent the wound surface and the larger size is to allow ready absorption while still being small enough to be capable of prohibiting excess exudate absorbed by the microporous skin to pass into the remote region. Thus it would be obvious to one of ordinary skill in the art to modify the device of Bowen so as to have a first average pore size in the range of 0.2-200 microns as disclosed by

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McRae to promote sufficient wicking and absorption. This range overlaps the claimed range thus the prior art of Bowen as modified McRae renders claim 5 unpatentable.

With respect to Claim 6: Neither Bowen nor McRae teaches a dressing cover made from an elastomeric material. Podell teaches a surgical drape comprised of a flexible elastomeric material. The motivation to combine the devices of Bowen and McRae and Podell is stated supra with respect to claim 1.

With respect to Claim 9: Bowen does not teach forming pores by placing said dressing pad in a liquid coating material. McRae teaches a wetting agent (liquid coating material) that an open-celled polyurethane foam is inserted into to a desired amount to achieve a particular pore size. (Col. 6, lines 28-42) The motivation to combine the teachings of Bowen and McRae and Podell has been stated *supra* with respect to claim 1.

With respect to Claims 12 and 13: McRae teaches that said microporous skin is formed from the original foam material by compression and not by the addition of another structural entity or chemical compound, therefore the dressing of Bowen as modified by McRae is a unitary assembly. The motivation to combine the teachings of Bowen and McRae has been stated supra with respect to claim 1.

With respect to Claims 14 and 15: Bowen teaches that the seal around the wound site is substantially airtight via polyurethane base adhesive, wherein polyurethane is air-impermeable. ("913. Col. 3. lines 24-26).

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With respect to Claim 16: Bowen teaches filters interposed either as part of vacuum source 32 or as part of canister 28, therefore Bowen does not teach one filter between said canister 28 and vacuum source 32. However, Bowen does teach that air flowing through conduit 30 that connects canister 28 and vacuum source 32 is free of particulate ('246, Col. 5, lines 5-11, 25-29), therefore it would be obvious to one of ordinary skill in the art to modify the device of Bowen such that one filter is positioned within conduit 30, i.e. between canister 28 and vacuum source 32 with a reasonable expectation of success.

With respect to Claim 17: Bowen teaches that a suction pump 32 is adapted to draw liquid from a sealed porous pad 40 through a drainage conduit 30 and into a vacuum canister 28 ('246, Col. 4, lines 22-28).

10. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bowen ('246) in view of McRae et al (U.S. Patent No. 3, 978,855) and further in view of Podell et al (U.S. Patent No.5,419,913) as applied to claim 1 above, and further in view of Shioya et al (U.S. Patent No. 4,997,425).

With respect to Claim 7: The combined teaching of Bowen and McRae and Podell does not teach the addition of an antimicrobial agent to said wound dressing. Shioya teaches the addition of an antimicrobial agent to the porous wound dressing (Col. 6, line 65-Col. 7, line 2). The benefits of an antimicrobial agent are well known and applicable to devices contacting a wound surface, therefore it would be obvious to someone of ordinary skill in the art to modify the dressing of the combined teaching of Bowen and McRae and Podell by adding an antimicrobial agent as taught by Shioya to impart antimicrobial benefit to prevent infection.

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11. Claims 8, 11, 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bowen ('246) in view of McRae et al (U.S. Patent No. 3, 978,855) and further in view of Podell et al (U.S. Patent No.5,419,913) as applied to claims 1 and 10 above, and further in view of Coffee (U.S. Patent No. 6,252,129)

With respect to Claims 8 and 11: The combined teaching of Bowen and McRae and Podell does not teach a foam dressing that may be released from a spray nozzle and deposited directly into the wound cavity, subsequently conforming to the shape of the wound cavity. Coffee teaches spraying a nontoxic polymeric flexible foam deposit into a wound to form a cavity wound dressing, with the dressing conforming to the contours of a cavity wound ('129, Col. 13, lines 52-55). It would be obvious to further modify the wound dressing of the combined teaching of Bowen and McRae and Podell to be able to be sprayed directly onto the wound wherein the dressing is a foam material that conforms to the shape of the wound as these spray devices are known, as taught by Coffee ('129, Col. 1, lines 14-17).

With respect to Claims 18,19: The combined teaching of Bowen and McRae and Podell does not teach a nontoxic foaming substance that is at least partially a gas. Coffee teaches that these sprayable substances for treating wounds are known and require a propellant gas to be dispersed onto a substrate. Therefore, it would be obvious to one of ordinary skill in the art to modify the device of the combined teaching of Bowen and McRae and Podell so as to provide propellant gas with the nontoxic chemical foam substance as taught by Coffee to ensure the proper application of said substance to the wound to create a properly fitting foam dressing. (Col. 1, lines 13-20)

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#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MELANIE J. HAND whose telephone number is (571)272-6464. The examiner can normally be reached on Mon-Thurs 8:00-5:30, alternate Fridays 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tatyana Zalukaeva can be reached on 571-272-1115. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Melanie J Hand/ Examiner, Art Unit 3761